INDEX

TO

VOLUME XX

ECONOMIC GEOGRAPHY

1944

ECONOMIC GEOGRAPHY

INDEX TO VOLUME XX

PAGE

Agricultural Economy of the Laguna Region, Lorene A. Garloch 296–304
Alexander, John W., Freight Rates as a Geographic Factor in Illinois (maps) 25–30
Aluminum Industry in the Western Hemisphere, James E. Collier (maps, graphs) 229–257
  Distribution of Bauxite Deposits 231–237
    United States 231–234
    Bauxite Resources of the United States 234–236
    Bauxite Deposits in British Guiana 236
    Bauxite in Brazil 236–237
    Miscellaneous South American Deposits 237
  Bauxite Production 237–243
    Mining Methods 237–239
    United States Production 239–240
    Bauxite Production in Surinam 240–241
    Bauxite Production in British Guiana 241–242
    Brazil's Bauxite Production 242–243
  Trade in Bauxite 243–244
  Manufacture of Alumina and Aluminum 244–250
    Locations of Bauxite Processing Plants 244–246
    The Aluminum Reduction Process 246
    Materials Required 247
    Location of Alumina Plants 247–248
    Location of Aluminum Reduction Plants 248–250
  Aluminum Production 250–252
    Development of the Industry 250–252
  Trade in Aluminum 252–253
  Future of the Aluminum Industry in the Western Hemisphere 253–257
    Production Outlook 253–254
    South America 254–255
    Possible Changes in Production Centers 255–256
    Low Grade Bauxite and Non-Bauxitic Ores 256–257
An Introduction to Weather and Climate, Glenn T., Trewartha (review) 78
Aluminum Production in the United States and Canada (graph) 254
Area, Production, and Yield per acre of cotton in the Laguna Region (table) 73
Area, Production, and Yield per acre of cotton in Mexico (table) 73
Area of the Basin of the Red River of the North 156–158
Argentina, Trade with 106
Atwood, Wallace W., Graphic Summary of Trade Between the United States and the Other Americas (graphs) 102–115
Atwood, Wallace W., Meeting an Emergency in Trade 1–4

Basic Causes for Agricultural Differences in Czech Farmers in Oklahoma 11
Bauxite Areas of Central Arkansas (map) 233
Bauxite Production
  United States Production 239–240
  Bauxite Production in Surinam 239–240
  Bauxite Production in British Guiana 241–242
  Brazil's Bauxite Production 242–243
Bauxite Reserves of the Americas 243
Bengston, Nels A. and Van Royen, Willem, Fundamentals of Economic Geography (review) 78
British Guiana, Bauxite Production in 241–242
Brazil, Bauxite Production in 242–243
Brazil on the March, by Morris L. Cooke (review) 228
Brazil, Trade with 104
British Railways and Motor Roads in the Middle East 1918–1930, Morton B. Stratton 116–129
British Railways and Motor Roads in the Middle East 1930–1940, Morton B. Stratton 189–203
Britton, Robert L., Population Distribution in West Virginia (map) 31–36
Bulb Industry of Western Washington, J. P. Galvin (maps and photographs) 20–24
  Beginning of the Bulb Industry 20
  Environmental Requirements for Bulb Growing 21
  Labor Requirements 21–23
  Marketing 23–24
Bulb Growing Areas of Washington (map) 21

PAGE

Canada, Land Utilization in the Middle Grand River Valley of Western Ontario, Chun-fen Lee 130–151
Canada, Trade with 102
Canadian Aluminum Exports 1930–1939 256
Cement Plants on the Great Lakes (table) 47
Cement Production and Trade on the Great Lakes, Paul C. Morrison (maps and photographs) 37–53
  Conditions Affecting Cement Plant Location 37–40
  Location of Lake-Front Cement Plants to Raw Materials 40–43
  Raw Materials from Waste and Industrial Integration 43–45
  Location to Market 45–46
  Direction of Lake Cement Trade 46–47
  The Early Period of Lake Cement Trade 47–49
  Lake Transportation and Terminal Facilities 49–53
  Conclusion 53
Cement, Statistics of Production and Trade (table) 52
Centers of Cotton Textile Industry of Mexico 71
Chapple, Eliot D. and Coon, Carleton S., Principles of Anthropology (review) 228
Character of the Landscape of New Bright Tobacco Belt of North Carolina 14–15
Characteristics of Agriculture in the Middle Grand River Valley of Western Ontario 147–148
Chile, Trade with 107
Clay County (Minnesota), Farm Water Supply and Use 167–188
Climate and Natural Vegetation in the Middle Grand River Valley of Western Ontario 132–134
Climate of the Basin of the Red River of the North 158–163
Climate and Vegetation of the Middle Grand River Valley of Western Ontario 132–134
Climatic Regions of the Middle Grand River Valley (map) 133
Collier, James E., The Aluminum Industry of the Western Hemisphere 229–257
Colombia, Trade with 109
Conclusions and Future of the Population Distribution in West Virginia 36
Conditions Affecting Cement Plant Location 37–40
Consumption of Domestic Bauxite (graph) 230
Cooke, Morris L., Brazil on the March (review) 228
Coon, Carleton S. and Chapple, Eliot D., Principles of Anthropology (review) 228
Corn Grown in Illinois, 1939 (map) 27
Corn Sold in Illinois for 1939–1940 (map) 27
Costa Rica, Trade with 111
Cost of Cotton Production in Mexico 76–77
Cotton Belt of North Carolina, Franklin C. Erickson (maps) 5–8
Cotton Belt of North Carolina (map) 6
Cotton in the Economy of Mexico, Lorene A. Garloch (photographs) 70–77
Cotton Production in Mexico 70
Cotton Regions of Mexico 72, 73–76
Cows and Calves Kept for Milk in 1939 in the South 55
Crops Other than Cotton in the Cotton Belt of North Carolina 7
Cuba, Trade with 113
Curacao, Trade with 110
Czech Farmers in Oklahoma, Russell W. Lynch 9–13
  Some Aspects of Group Mobility and Tendency Toward Movement 9–10
  Some Aspects of Group Relationships with the Land 10–11
  Some Basic Causes for Agricultural Differences 11
  Some Aspects of Group Social Relationships 12–13
  Some Conclusions 13

Dairying in the South, Halene Hatcher (maps) 54–64
  Distribution and Present Trends 54–56
  Relative Importance of Dairy Farming 56–57
  Early Development 57–61
  Impact of Dairying on People and Land 61–62
  Prospects 63–64
Density (population), Areas in West Virginia 34–36

PAGE

Development of the Laguna Region, Lorene A. Garloch (photographs) ... 221–227
Direction of Lake Cement Trade ... 46–47
Distribution and Present Trends of Dairying in the South ... 54–56
Distribution of Cattle in Illinois, Excluding Milk Cows, 1940 (map) ... 30
Distribution of Cities and Incorporated Towns and Villages in the Basin of the Red River of the North ... 258
Distribution of Bauxite Deposits in the United States (map) ... 232
Distribution of Alumina and Aluminum Manufacturing Plants in the United States and Canada (map) ... 251
Distribution of Bauxite Deposits ... 231–237
United States ... 231–234
Bauxite Resources of the United States ... 234–236
Bauxite Deposits of British Guiana ... 236
Bauxite in Brazil ... 236–237
Miscellaneous South American Deposits ... 237
Distribution of Hogs in Illinois, 1940 (map) ... 30
Dominican Republic, Trade with ... 114
Drainage Map Showing the Irrigation System with Canals and Dams, Laguna Region, Mexico ... 298

Early Development of Dairying in the South ... 57–61
Early Period of Lake Cement Trade ... 47–49
Early Vegetable Farming and Land Tenure in Northern Everglades ... 83–84
Ecuador, Trade with ... 108
Editorials
Aluminum ... opp. p. 229
The Everglades ... opp. p. 79
Farm Water ... opp. p. 153
Tung Oil ... opp. p. 1
Ekblaw, W. Elmer (reviews):
An Introduction to Weather and Climate, by Glenn T. Trewartha ... 78
Brazil on the March, by Morris L. Cooke ... 228
Fundamentals of Economic Geography, by Nels A. Bengston and Willem Van Royen ... 78
Geography of Latin America, by Fred A. Carlson. 78
Geopolitics in Principle and Practice, by Russell H. Fifield and G. Etzel Pearcy ... 229
Japan, A Geographical View, by Guy-Harold Smith, Dorothy Good, with the collaboration of Shannon McCune ... 153
Population Problems, by Paul H. Landis ... 152–153
Principles of Anthropology, by Eliot D. Chapple and Carleton S. Coon ... 228
Tea Under International Regulation, by V. D. Wickizer ... 229
Winter Wheat in the Golden Belt of Kansas, by James C. Malin ... 152
El Salvador, Trade with ... 111
Environmental Requirements for Bulb Growing in Western Washington ... 21
Erickson, Franklin C., The Cotton Belt of North Carolina ... 5–8
Everglades, Vegetable Production in the Northern, L. LeMar Stephan ... 79–101

Farm Water Supply of the Basin of the Red River of the North ... 163–164
Fifield, Russell H. and Pearcy, G. Etzel, Geopolitics in Principle and Practice (review) ... 229
Fobes, Charles B., Path of Settlement and Distribution of Population in Maine (maps) ... 65–69
Freight Rates as a Geographic Factor in Illinois, John W. Alexander (maps) ... 25–30
Future of the Aluminum Industry in the Western Hemisphere ... 253–257
Production Outlook ... 253–254
South America ... 254–255
Possible Changes in Production Centers ... 255–256
Low Grade Bauxite and Non-bauxitic Ores ... 256–257
Future of the Cotton Belt of North Carolina ... 8
Future of the High Country and the Runs, New Zealand ... 218–220
Fundamentals of Economic Geography, by Nels A. Bengston and Willem Van Royen (review) ... 78

Gallons of Milk Produced in the South Per Acre of Cropland, 1939 (map) ... 58
Galvin, J. P., The Bulb Industry of Western Washington (map and photographs) ... 20–24
Garloch, Lorene A.
Agricultural Economy of the Laguna Region (photographs) ... 296–304
Cotton in the Economy of Mexico (photographs) ... 70–77
Development of the Laguna Region (maps and photographs) ... 221–227

PAGE

General Characteristics of Agriculture in the Middle Grand River Valley of Western Ontario ... 147–148
Geography of Latin America, by Fred A. Carlson (review) ... 78
Geopolitics in Principle and Practice, by Russell H. Fifield and G. Etzel Pearcy (review) ... 229
Good, Dorothy and Smith, Guy-Harold, Japan, A Geographical View (review) ... 153
Graphic Summary of Trade between the United States and the Other Americas, Wallace W. Atwood (graphs) ... 102–115
Grasmere-Cora Lynn Run, New Zealand ... 205–209
Great Lakes, Cement Production and Trade on the, Paul C. Morrison ... 37–53
Greenland, Trade with ... 103
Group Mobility and Tendency Toward Movement Among the Czechs in Oklahoma ... 9–10
Group Relationships with the Land Among the Czechs in Oklahoma ... 10–11
Guatemala, Trade with ... 112
Guianas, Trade with ... 110

Haiti, Trade with ... 114
Hatcher, Halene, Dairying in the South (maps) ... 54–64
High Country "Run," The Geography of Extensive Pastoralism in New Zealand, K. B. Cumberland (maps and photographs) ... 204–220
The Grasmere-Cora Lynn Run ... 205–209
Run Practice and Economy ... 209–214
The Problems of the Run ... 214–218
The Future of the High Country and the Runs. 218–220
Conclusion ... 220
Honduras, Trade with ... 112

Illinois, Freight Rates as a Geographic Factor in, John W. Alexander ... 25–30
Impact of Dairying on People and Land in the South. 61–62
Importance of Coal in Population Distribution in West Virginia ... 32–34
Industrial Influence in Population Distribution in West Virginia ... 32
Insects and Cotton Production in Mexico ... 73
Interstate Rates on Grain to Chicago (map) ... 28
Interstate Rates on Cattle and Hogs to Chicago (map) 26
Intrastate Rates on Livestock to East St. Louis (map) 29
Intrastate Rates on Livestock to Chicago (map) ... 28
Introduction of Abaca into Central America ... 3

Japan, A Geographical View, by Guy-Harold Smith and Dorothy Good (review) ... 153

Labor Requirements in Vegetable Production in the Northern Everglades ... 91–94
Labor Requirements for Bulb Growing in Washington ... 21–23
Laguna Region, Development of the, Lorene A. Garloch ... 221–227
Lake Transportation and Terminal Facilities for Cement ... 49–53
Landis, Paul H., Population Problems (review) ... 152–153
Land Types in Middle Grand River Valley of Ontario ... 134–138
Land Use of New Bright Tobacco Belt of North Carolina ... 19
Land Utilization in the Middle Grand River Valley of Western Ontario, Chun-fen Lee (maps, graphs, photographs) ... 130–151
Surface Features ... 130–132
Climate and Natural Vegetation ... 132–134
Land Types ... 134–138
Land Utilization ... 138–147
General Characteristics of Agriculture ... 147–148
Conclusion ... 148–151
Land Utilization of the Upper Glades, 1940 (map) ... 80
Leading Highways in the New Bright Tobacco Belt of North Carolina (map) ... 17
Lee, Chun-fen, Land Utilization in the Middle Grand River Valley of Western Ontario (maps, graphs, photographs) ... 130–151
Location and Distribution of the Pleistocene Terraces in Eastern North Carolina ... 15
Location of Cement Plants in Relation to Market ... 45–46
Location of Great Lake Cement Industry and Trade (map) ... 38
Location of the Laguna Area, Mexico (map) ... 297
Location of Lake-Front Cement Plants to Raw Materials ... 40–43
Location of New Bright Tobacco Belt, North Carolina (map) ... 15
Location of the Basin of the Red River of the North (map) ... 156
Lynch, Russell, W., Czech Farmers in Oklahoma ... 9–13

PAGE
Maine, Path of Settlement and Distribution of Population in, Charles B. Fobes (maps) 65–69
Maine Population Distribution, 1940 (map) 68
Major Bauxite Districts of Surinam and British Guiana 234
Malin, James C., Winter Wheat in the Golden Belt of Kansas (review) 152
Manufacture of Alumina and Aluminum 244–250
Locations of Bauxite Processing Plants 244–246
The Aluminum Reduction Process 246
Materials Required 247
Location of Alumina Plants 247–248
Location of Aluminum Reduction Plants 248–250
Marketing Bulbs 23–24
Meeting an Emergency in Trade, Wallace W. Atwood. 1–4
Mexico, Agricultural Economy of the Laguna Region, Lorene A. Garloch 296–304
Mexico, Cotton in the Economy of, Lorene A. Garloch 70–77
Mexico, Development of the Laguna Region, Lorene A. Garloch 221–227
Mexico, Trade with 104
Middle East, British Railways and Motor Roads in the Middle East, 1918–1930, Morton B. Stratton (maps) 116–129
Middle East, British Railways and Motor Roads in the Middle East, 1930–1940, Morton B. Stratton (maps and photographs) 189–203
Middle Grand River Valley of Western Ontario (map) 131
Milk Production in the South 1939 (map) 56
Morrison, Paul Cross, Cement Production and Trade on the Great Lakes 37–53
Movement of Cotton Between the Producing Regions and the States of Mexico Which Utilize It, 1934–1935 (table) 71

Natural Regions of Clay County, Minnesota (map). 165
Nature of the Physical Environment in Vegetable Production in the Northern Everglades (maps, graphs, photographs), L. LeMar Stephan 84–91
Location and Space 84
Terrain 84
Structure 85
Soils 85
Climate 86
Water Control 89
The New Bright Tobacco Belt of North Carolina, Parnell W. Picklesimer (maps and photographs) . 14–19
Occupance 14
Character of the Landscape 14–15
Land Use 15–19
Newfoundland and Labrador, Trade with 103
New Zealand, High Country "Run," The Geography of Extensive Pastoralism in, K. B. Cumberland 204–220
New Zealand Tussock Grasslands (map) 205
Nicaragua, Trade with 111
North Carolina, The Cotton Belt of 5–8
North Carolina, The New Bright Tobacco Belt of ... 14–20

Occupance of the New Bright Tobacco Belt of North Carolina 14
Oklahoma, Czech Farmers in, Russell W. Lynch 9–13
Ontario, Land Utilization in the Middle Grand River Valley of Western, Chun-fen Lee 130–151
Organized Systems Depending Upon Well Water .. 266–272
Origin of Cement Received at Certain Great Lakes Ports During 1938 (table) 51

Panama, Trade with 111
Paraguay, Trade with 107
Path of Settlement and Distribution of Population in Maine, Charles B. Fobes (maps) 65–69
Pearcy, G. Etzel, and Fifield, Russell H., Geopolitics in Principle and Practice (review) 229
Percentage of Cropland in Hay in the South, 1939 (map) 62
Per Cent of the Total Bauxite Requirements of the United States Which is Supplied by Domestic Production, 1900–1940 250
Peru, Trade with 108
Physical Geography of Clay County, Minnesota ... 164–167
Physical Geography of the Basin of the Red River of the North 155–156
Physiographic Diagram of the Middle Grand River Valley 132
Picklesimer, Parnell W., The New Bright Tobacco Belt of North Carolina (maps and photographs) .. 14–20
Population Distribution in West Virginia. Robert L. Britton (map) 31–36
Valley Settlement 31
Smallness of Towns 32
Industrial Influences 32–34
Importance of Coal 34–36
Density Areas 36
Conclusions and Future 36
Population Distribution in West Virginia (map) 33
Population Problems, by Paul H. Landis (review) . 152–153
Possibility of Getting Rubber from Brazil 2
Postwar Development of South America 3
Previous Records of Organized Water Systems in the Basin of the Red River of the North 259–266
Principles of Anthropology, by Eliot D. Chapple and Carleton S. Coon (review) 228
Problems of the Run, New Zealand 214–218
Production of Mexican Cotton by Regions (table) ... 72
Production and Marketing in the Northern Everglades 94–100
Land Costs 94
Fertilizer Requirements 95
Cost of Disease Control 95
Evolution of Packing and Marketing 96
Marketing 96
Total Production Costs and Profits 97
Comparative Growing Costs 98
Competition with Other Trucking Areas 98–100
A New Cannery 100
Prospects of the Dairying Industry in the South 63–64
Pyrethrum Production in South America 4

Railways and Bus Routes in the Middle East (map) . 192
Railways in the Middle East (map) 190
Raw Materials from Waste and Industrial Integration in the Cement Industry 43–45
Recommendations for Expansion of the Cotton Industry in Mexico 76
Red River Basin of the North in the United States, Water Supply Geography of, J. R. Schwendeman 153–188
Red River Basin of the North in the United States, Water Supply Geography of. Part II—The Organized Water Supply Systems of the Cities and Towns, J. R. Schwendeman 258–285
Reduction of Cotton Acreage in North Carolina 5
Relative Importance of Dairy Farming in the South. 56–57
Run Practice and Economy in New Zealand 209–214

Schwendeman, J. R., Water Supply Geography of the Basin of the Red River of the North in the United States 153–188
Schwendeman, J. R., Water Supply Geography of the Basin of the Red River of the North in the United States. Part II—The Organized Water Supply Systems of the Cities and Towns 258–285
Seasonal Round of Farm Organization in Vegetable Production in the Northern Everglades 79–83
Series of Maps Depicting the Settled Areas of Maine in 1700, 1760, 1780, 1800, 1820, and 1940 66–67
Smallness of Towns in West Virginia 31–32
Smith, Guy-Harold and Good, Dorothy, Japan, A Geographical View (review) 153
Social Relationships Among the Czechs in Oklahoma . 12–13
Soil Divisions in the Upper Everglades (map) 94
Soils of the Cotton Belt of North Carolina 5–6, 7
Sources of Quinine in South America 3
South, Dairying in the, Halene Hatcher 54–64
Stephan, L. LeMar Vegetable Production in the Northern Everglades 79–101
Storms of the World, Stephen S. Visher 286–295
Thunderstorms 286–288
Tornadoes 288–289
Hurricanes, Typhoons, and Lesser Tropical Cyclones 289–291
Lows 291–293
Some Effects of Torrential Rains 293–294
Cyclonic Storms and Civilization 294–295
Stratton, Morton B.
British Railways and Motor Roads in the Middle East 1918–1930 116–129
British Railways and Motor Roads in the Middle East 1930–1940 189–203
Surface Configuration of Grasmere-Cora Lynn, New Zealand (map) 207
Surface Features of the Middle Grand River Valley of Western Ontario 130–132
Surinam, Bauxite Production in 240–241
System of Growing Cotton in Mexico 72

Tea Under International Regulation, by V. D. Wickizer (review) 229
Tobacco and Cotton Acreage in the New Bright Tobacco Belt of North Carolina 18
Trade in Aluminum 252–253
Trade in Bauxite 243–244
Trade with
Argentina 106
Bolivia 108
Brazil 104

PAGE
Canada ... 102
Chile ... 107
Colombia ... 109
Costa Rica ... 111
Cuba ... 113
Curacao ... 110
Dominican Republic ... 114
Ecuador ... 109
El Salvador ... 111
Greenland ... 103
Guatemala ... 112
Guianas ... 110
Haiti ... 114
Honduras ... 112
Mexico ... 104
Newfoundland and Labrador ... 103
Nicaragua ... 111
Panama ... 111
Paraguay ... 107
Peru ... 108
Tobago, Jamaica, and Other British West Indies ... 115
Uruguay ... 105
Venezuela ... 110
Types of Cotton Grown in Mexico ... 74, 75, 76

United States and the Other Americas, Graphic Summary of Trade Between, Wallace W. Atwood ... 102–115
United States Bauxite Production and Net Imports, 1900–1940 (graph) ... 244
United States, Water Supply Geography of the Basin of the Red River of the North in the, J. R. Schwendeman ... 153–188
Part II—The Organized Water Supply Systems of the Cities and Towns ... 258–285
Uruguay, Trade with ... 105

Valley Settlement in West Virginia ... 31

PAGE
Van Royen, Willem and Bengston, Nels A., Fundamentals of Economic Geography (review) ... 78

Washington, The Bulb Industry of Western, J. P. Galvin ... 20–24
Water Supply Geography of the Basin of the Red River of the North in the United States, J. R. Schwendeman (maps, graphs, photographs) ... 153–188
Physical Geography of the Red River Basin ... 155–156
Location ... 156
Area ... 156–158
Climate ... 158–163
Farm Water Supply ... 163–164
Physical Geography of Clay County ... 164–167
Clay County Farm Water Supply and Use ... 167–188
Water Supply Geography of the Basin of the Red River of the North in the United States. Part II—The Organized Water Supply Systems of the Cities and Towns, J. R. Schwendeman (maps, charts, graphs, photos) ... 258–285
Distribution of Cities and Incorporated Towns and Villages ... 258
Water Supply and the Development of Cities and Villages ... 259–266
Previous Reports of Organized Systems ... 259–266
The Organized Systems Depending Upon Well Water ... 266–272
The Water Supply and Consumption of the City of Fargo, North Dakota ... 272–285
Western Hemisphere, The Aluminum Industry of, James E. Collier ... 229–257
Western Ontario, Land Utilization in the Middle Grand River Valley, Chun-fen Lee ... 130–151
West Virginia, Population Distribution in, Robert L. Britton ... 31–36
Wickizer, V. D., Tea Under International Regulation (review) ... 229
Winter Wheat in the Golden Belt of Kansas, James C. Malin (review) ... 152